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Published:
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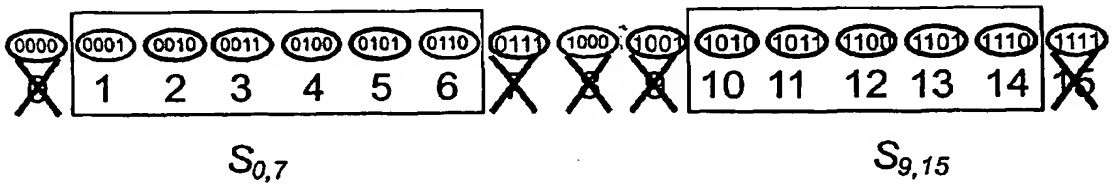
(54) Title: SYSTEM FOR AUTHENTICATION BETWEEN DEVICES USING GROUP CERTIFICATES



(57) Abstract: In whitelist-based authentication, a first device (102) in a system (100) authenticates itself to a second device (103) using a group certificate identifying a range of non-revoked device identifiers, said range encompassing the device identifier of the first device (102). Preferably the device identifiers correspond to leaf nodes in a hierarchically ordered tree, and the group certificate identifies a node (202-207) in the tree representing a subtree in which the leaf nodes correspond to said range. The group certificate can also identify a further node (308, 310, 312) in the subtree which represents a sub-subtree in which the leaf nodes correspond to revoked device identifiers. Alternatively, the device identifiers are selected from a sequentially ordered range, and the group certificate identifies a subrange of the sequentially ordered range, said subrange encompassing the whitelisted device identifiers.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L9/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	WO 00 68762 A (SUN MICROSYSTEMS INC) 16 November 2000 (2000-11-16) abstract page 5, line 4 - line 17 page 6, line 3 -page 7, line 2 page 9, line 1 - line 7 page 10, line 21 - line 24 page 16, line 9 - line 16 figure 7	1,5-7, 9-12 2,3 4,8
A	WO 02 41527 A (LORAL SPACE SYSTEMS INC) 23 May 2002 (2002-05-23) abstract figure 1	5,6

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
28 October 2003	17/11/2003

Name and mailing address of the ISA	Authorized officer
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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